# Severe Weather Risk Saturday, April 25, 2015

Threat Assessment for south-central Indiana and central Kentucky

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## **Threat Overview**

- A surface warm front will move northward into the region late tonight and Saturday morning.
- The warm front is expected to stall out near the I-64 corridor in Kentucky by early Saturday afternoon.
- Partial clearing is expected early Saturday afternoon which will result in the atmosphere becoming increasingly unstable.
- A developing area of low pressure will move in from the west during the afternoon, forcing another round of thunderstorms.
- The Saturday afternoon thunderstorms are expected to be severe with flooding rains, very large hail, damaging winds, and tornadoes.

## **Threat Overview**



## **SPC Outlook**

## Saturday April 25, 2015

Categorical Outlook For Saturday



### **Understanding Severe Thunderstorm Risk Categories**

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THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with all thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
• Winds to 40 mph • Small hail	• Winds 40-60 mph • Hail up to 1" • Low tornado risk	One or two tornadoes     Reports of strong winds/wind damage     Hail ~1", isolated 2"	<ul> <li>A few tornadoes</li> <li>Several reports of wind damage</li> <li>Damaging hail, 1 - 2"</li> </ul>	Strong tornadoes     Widespread wind damage     Destructive hail, 2" +	Tornado outbreak     Derecho

\* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.

### Severe Weather Threat Area and Timing

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### <u>Timing</u>

Severe weather expected between 1PM and 9 PM EDT Saturday

### **Uncertainty**

Still some uncertainty how far north warm front will move.



## **Expected Impacts**

- All modes of severe weather are expected Saturday afternoon and evening.
- Tornadoes: Tornadoes will be possible along and south of the warm front. Highest risk area for tornadoes are in areas south of I-64 in southern Indiana and central Kentucky.
- Wind: Damaging winds in excess of 65 MPH will be possible with thunderstorms Saturday afternoon and evening.
- Hail: Very large hail (larger than golfballs) will be possible with thunderstorms Saturday afternoon and evening.
- Flooding: Heavy rainfall with the thunderstorms combined with thunderstorms training over the same areas will result in some flash flooding potential.